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TIME



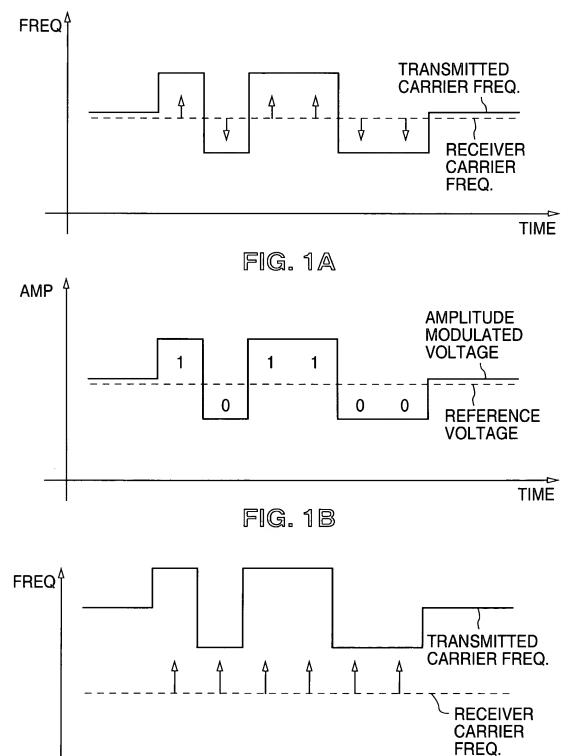
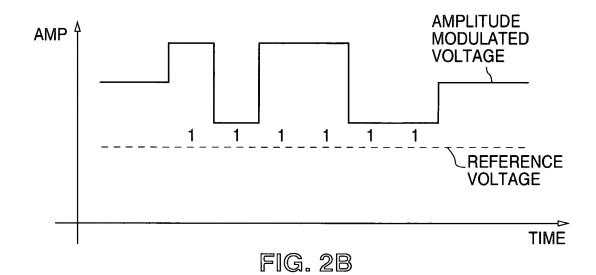


FIG. 2A

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REPLACEMENT



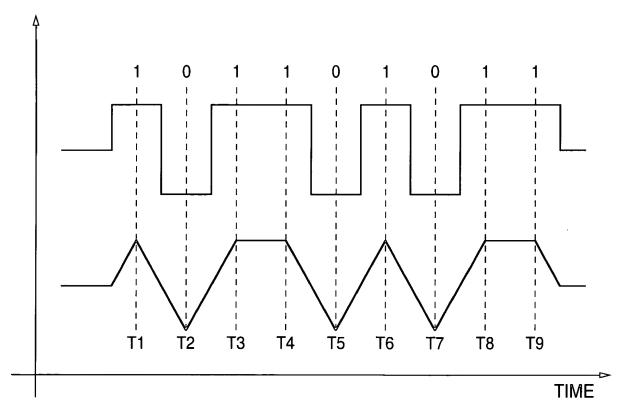


FIG. 3



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DIGITAL DEMODULATION 뚭 LOGIC BLOCK 455 440 SUMMER 435B FREQUENCY OFFSET SIGNAL DETECTED X-NOR X-NOR 435A **TIME OFFSET ∠430B** HALF-BIT DELAY HALF-BIT DELAY 430A SIGNAL ACQ. BLOCK 425B 425A 460-BPF 420 QUAD. MIXER 415 410 N N

ADC

450

405

FIG. 4

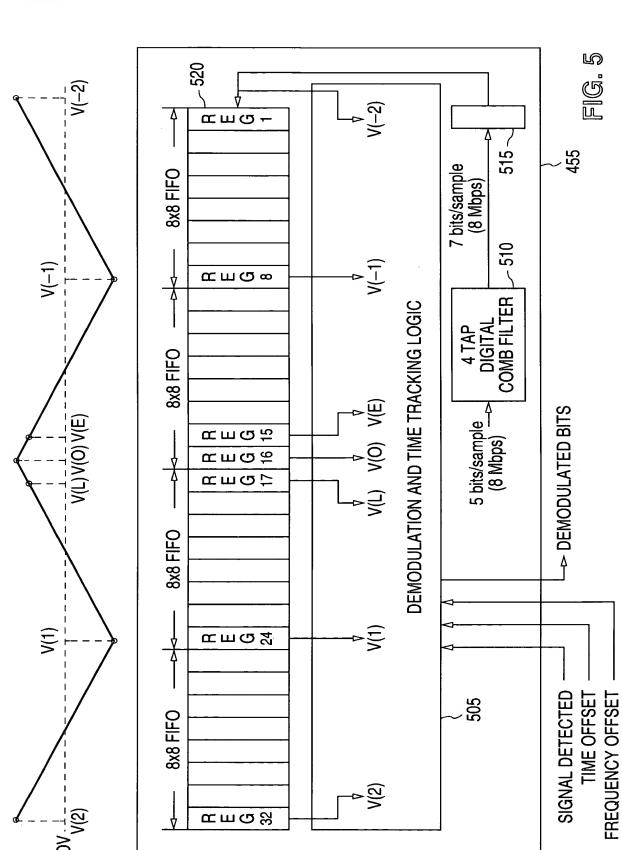
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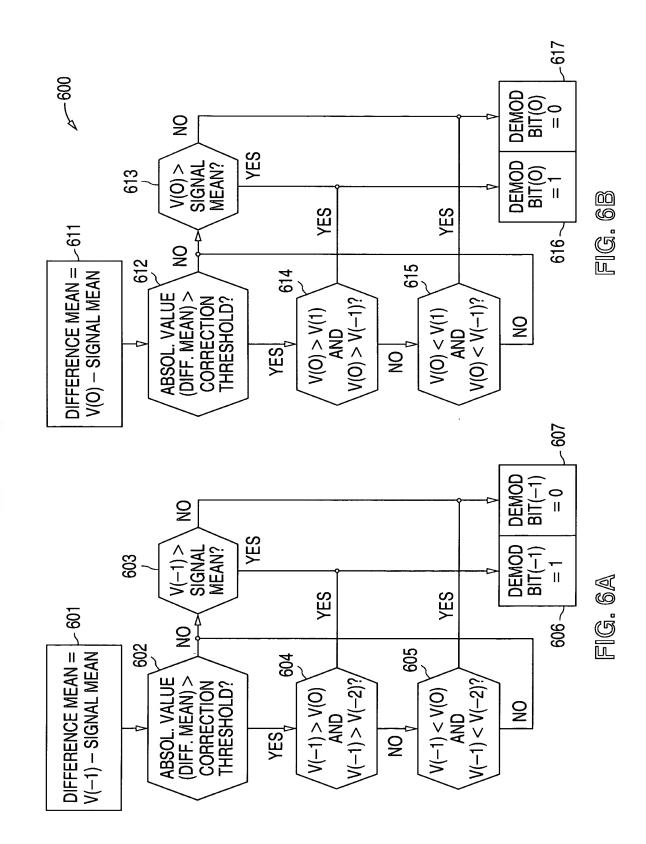


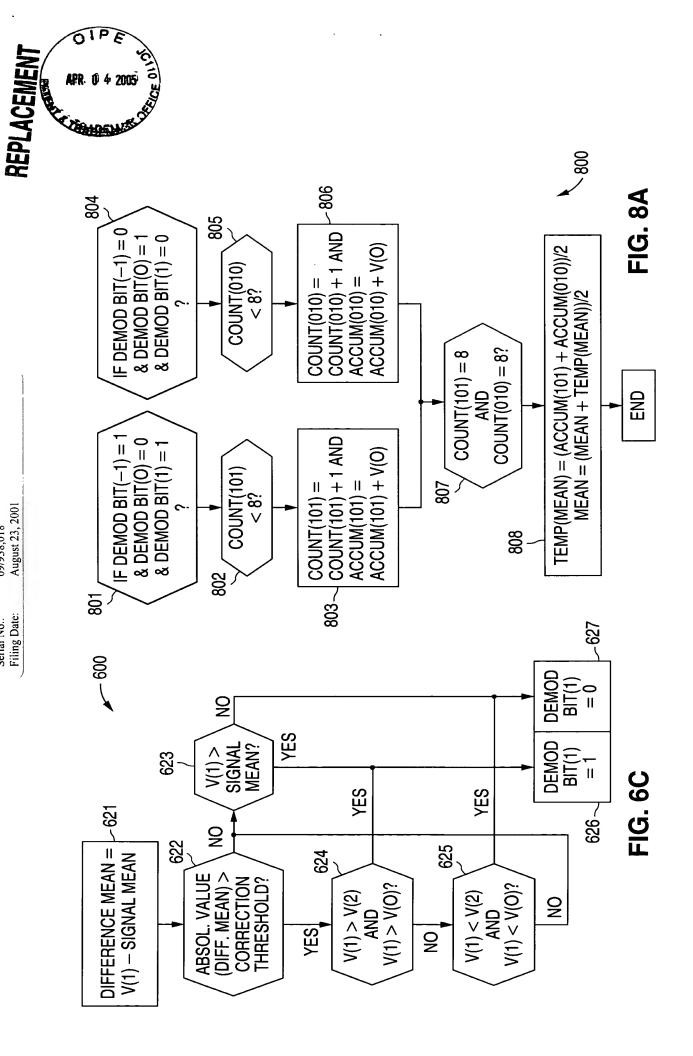
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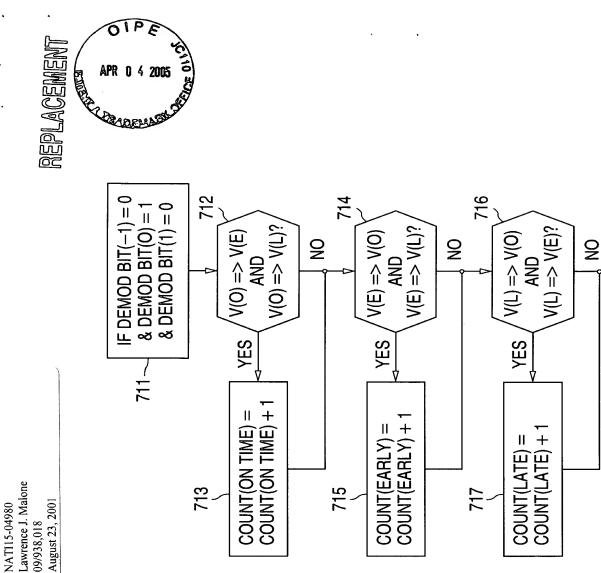


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704

705

9

 $V(0) \le V(L)$ ?

 $V(O) \le V(E)$ AND

YES

II

COUNT(ON TIME)

703

COUNT(ON TIME) +

702

& DEMOD BIT(O) = 0 & DEMOD BIT(1) = 1

701~

IF DEMOD BIT (-1) = 1

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200

GO TO FIGURE 7B

⋖

FIG. 7A

90/

707

9

 $V(L) \leftarrow V(E)$ ?

9

 $V(L) \le V(O)$ AND

YES

COUNT(LATE) = COUNT(LATE) + 1

V(E) <= V(L)?

 $/V(E) \le V(O)$ AND

YES

COUNT(EARLY) = COUNT(EARLY) + 1

RADEN APR 0 4 2005

REPLACEMENT

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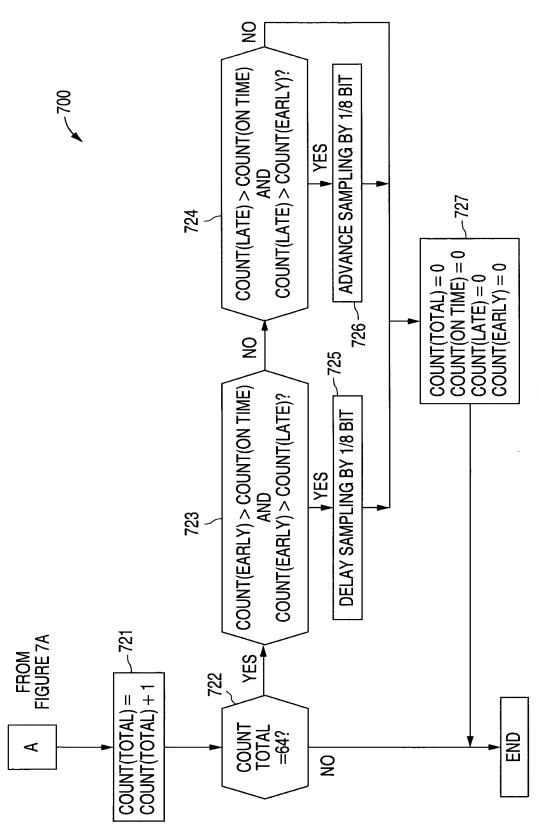
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COUNT(011) + 1 AND

COUNT(011)

ACCUM(011) =

ACCUM(011) + V(O)

827

828

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F DEMOD BIT(-1) = 0

82

& DEMOD BIT(0) = 1 & DEMOD BIT(1) = 1

COUNT(011)

822

< 83</p>

823